Methodology/Technical Notes

(source: School Library Media Centers: 1993-1994)

I. Background

The primary source of data in the report is the 1993-94 Library Survey, sponsored by the National Center for Education Statistics, U.S. Department of Education, and conducted by the U.S. Bureau of the Census. It was the first federally sponsored survey of library media centers and head librarians in elementary and secondary schools. The purpose of the survey was to collect data that could be used to measure the adequacy of school library media centers as support for the schools' educational programs and goals. The need for these kinds of data was a result of growing concern in recent years about the adverse effects of local and state government budget shortfalls on education in general and on funding for school library collections and staffing in particular.

In preparation for the 1993-94 survey, a field test was conducted during the 1990-91 school year, in conjunction with the Schools and Staffing Survey (SASS).¹ Questionnaires were mailed to approximately 700 public and private schools that had also been selected for participation in the SASS. Table I-1 displays the results of data collection for the test.

Table I-1.—Summary	Table I-1.—Summary of Library Survey field test, 1990-91								
Questionnaire	Mailed out	Completed	Noninterviews	Out-of-scope cases					
Library Media Centers Public Private	291 391	260 262	11 31	20 ¹ 98 ¹					
Librarians Public Private	291 391	253 157	10 26	$28^2 \\ 208^2$					

¹Includes cases where the sample school was out of scope (e.g., not a school; postsecondary only) and those where the school did not have a library.

As a result of the field test, some items on the questionnaires were deleted and others were reworded before the 1993-94 survey.

²Includes cases where the school was out of scope, those where the school did not have a library, and those where the library did not have a librarian.

¹For a complete description of the 1990-91 Schools and Staffing Survey, see *1990-91 Schools and Staffing Survey: Data File User's Manual*, U. S. Department of Education, National Center for Education Statistics, NCES 93-144-I.

The 1993-94 Library Survey was conducted in conjunction with the 1993-94 SASS, so much of this report uses data from SASS as well. In particular, data on the distribution of library media centers and some data on library staffing are based on the SASS school questionnaire, comparisons of librarians with teachers make use of the SASS teacher questionnaire, data on the number of FTE positions (including staffing vacancies and positions that were withdrawn or abolished) are from the SASS teacher demand and shortage questionnaire for public school districts, and data on school problems and on the influence of various groups are from the SASS school principal questionnaire. Further, data from the 1993-94 Library Survey were often merged with SASS data in order to produce breakdowns by school size and free lunch eligibility. Sometimes a library media center or head librarian completed a survey when the school did not respond, in which case data are missing for school size and free lunch eligibility. For such analyses, the totals include all cases, but the breakdowns for school size and free lunch eligibility include only those cases for which the required data are available. Because of low response rates for non-Catholic religious schools and non-sectarian schools, only results for Catholic schools are reported under orientation.

In order to examine changes over time, the report also includes data from a wide variety of other sources. Most significantly, these include surveys of public school libraries in 1958-59 and 1962-63, a survey of public school library media centers in 1974, a survey of public school libraries and media centers in 1978, and a survey of public and private school library media centers in 1985-86. Each table in Appendix A lists the specific sources that were used for that table. Generally standard errors were not available for the historical data, so it was not possible to perform significance tests of changes over time. Instead, the historical data are discussed in a descriptive manner.

The remainder of this appendix provides additional information about the 1993-94 Library Survey.

II. Survey Content

The 1993-94 Library Survey consisted of two components—the Library Media Center Survey and the Library Media Specialist/Librarian Survey. The questionnaires for these components were administered to a sample of public, private, and Bureau of Indian Affairs (BIA) schools.

• The *Library Media Center Questionnaires* (Forms LS-1A, LS-1B, and LS-1C) had these five sections:

Section A - Library Media Center Staffing obtained counts of (1) certified library media specialists, (2) professional staff members who were not certified as library media specialists, and (3) other paid library staff by full-time/part-time status. Also obtained were data on college degrees held by professional staff members, number of adult and student volunteers in the library, and, for private schools, counts of staff members who worked on a contributed service basis.

Section B - 1992-93 Collection and Expenditures obtained data for the 1992-93 school year on materials in the library media center's collection (books, serial subscriptions, audio-visual materials, computer software, and CD-ROM), acquisitions, expenditures, and adequacy of the collection for the school's needs.

Section C - Technology collected information on technical equipment and services available in the library media center or elsewhere in the school, e.g., computers, automated catalog, online database searching, cable television, and distance learning.

Section D - Library Media Center Facilities contained questions on the seating capacity and the types of spaces available in the library media center, e.g., individual reading space, conference rooms, storage, workrooms, and space for group activities.

Section E - Scheduling and Transactions obtained information about use of the library media center— how classes were scheduled, when students could check out materials, how many students used the library in a week, types and number of materials that could be checked out by students, etc.

• The *Library Media Specialist/Librarian Questionnaires* (Forms LS-2A, LS-2B, LS-2C) were mailed to the head librarians at schools selected for the Library Survey and had these seven sections:

Section A - Current Status obtained information about the librarian's current position — whether full time or part time, whether he/she also was a classroom teacher, other assignments at the school, and main activity outside the school.

Section B - Experience had questions on year of first school librarian position, main activity before becoming a school librarian, and years of experience as a school librarian.

Section C - Training collected data on college degrees, inservice training participation, and certification.

Section D - Collaborative Activities had questions on how often the librarian worked with classroom teachers, number of extra hours worked each week, and other duties at the school (e.g., cafeteria duty, study hall, playground duty).

Section E - Perceptions and Attitudes Toward Work obtained data on how the respondent felt about his/her current position and about the profession in general.

Section F - Compensation obtained information on the respondent's school salary, other earned income, benefits, and family income.

Section G - Background Information obtained data on the librarian's gender, race, year of birth, marital status, and number of dependents.

Copies of the questionnaires used in the 1993-94 Library Survey can be obtained by writing to:

Library Survey Questionnaires National Center for Education Statistics Room 320 555 New Jersey Avenue, N.W. Washington, DC 20208-5651

III. Target Populations and Estimates

A. Target Populations

The target populations for the 1993-94 Library Survey were:

- The library media centers in public, private, and BIA schools with students in any of grades 1-12, or comparable ungraded levels; and
- The head librarians at those schools.

B. Estimates

The Library Survey was designed to produce estimates at the state and national level for public schools, at the national level for BIA schools, and at the national and major affiliation level (Catholic, other religious, nonsectarian) for private schools. Selected standard errrs are presented in Tables III-1 and III-2.

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School characteristic	Percent with a computer and modem			Percent with connection to Internet		Percent in which teachers purchase materials for use in classroom		Percent rating currentness of support regarding reference as excellent or adequate		Percent rating currentness of support in science/ technology as excellent or adequate	
	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	
TOTAL	31.4	0.8	10.7	0.5	78.3	0.7	65.2	1.0	50.7	0.9	
PUBLIC											
School level											
Elementary	28.3	1.2	9.5	0.8	77.4	1.3	65.5	1.3	54.2	1.4	
Secondary	48.2	1.5	17.5	4.5	81.4	1.0	68.6	1.3	49.3	1.3	
Combined	37.9	3.0	14.9	12.7	80.9	3.0	56.7	3.0	45.0	3.0	
School size											
0-149	29.5	3.2	7.2	1.1	82.3	2.1	64.7	3.2	50.2	3.0	
150-299	25.8	2.2	11.3	1.5	79.1	2.2	60.8	3.2	47.4	2.8	
300-599	31.4	1.4	10.2	0.9	77.4	1.6	64.7	1.6	50.8	2.0	
600 or more	44.6	1.6	16.8	1.1	79.3	1.4	72.9	1.4	59.7	1.7	
Free lunch eligibility											
Less than 20 percent	43.4	2.1	17.8	1.4	80.0	1.7	70.6	1.9	55.1	2.3	
20-49 percent	33.0	1.5	10.7	1.0	78.7	1.3	66.1	1.9	54.0	1.9	
50 percent or more	27.3	1.8	9.0	1.1	76.7	1.8	63.9	1.8	50.5	2.0	
PRIVATE											
School level											
Elementary	12.2	1.5	2.8	0.8	75.5	1.7	65.9	1.9	48.9	1.7	
Secondary	30.2	1.9	9.2	1.1	80.6	2.3	56.9	3.3	41.3	3.1	
Combined	27.9	2.7	7.5	1.2	76.6	3.3	53.8	3.5	31.2	2.7	
School size											
0-149	14.3	2.2	2.7	0.9	75.0	2.9	59.6	2.7	34.8	2.8	
150-299	17.3	1.7	5.2	0.8	76.7	2.0	60.3	2.2	46.5	2.4	
300-599	23.4	2.4	7.2	1.6	79.7	2.2	69.5	2.4	55.2	2.5	
600 or more	47.4	3.1	16.8	1.9	78.9	3.2	82.1	2.3	60.9	3.4	
Orientation											
Catholic	16.0	1.3	4.6	0.9	76.0	1.7	66.5	1.7	50.6	1.7	

NOTE: Statistics are based on the 92 percent of schools with library media centers. Details may not add to totals because of cell suppression. Survey of American Indian schools was a census, so no standard errors are included; however, Indian schools are included in the overall totals to maintain comparability with other data.

SOURCE: U.S. Department of Education, National Center for Education Statistis, Schools and Staffing Survey: 1993-94, Library Media Center Questionnaire.

Table III-1.—Selected estimates and standard errors for survey of school library media centers (continued)

School characteristic	Number of state-certified library media specialists		Number on non-certified professional staff		Number of other staff		State-certified library media specialists as a percentage of all library staff		Mean library media center expenditures on collections per school	
	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error
TOTAL	72,160.4	1,063.6	33,668.9	916.1	58,813.7	1,301.2	43.8	0.5	6,160.1	124.7
PUBLIC										
School level	41.010.0	015.0	14.2061	740.6	22 210 5	064.2	46.0	0.0	5 504 1	1510
Elementary	41,910.9	915.2	14,296.1	749.6	33,218.5	964.2	46.9	0.8	5,594.1	154.9
Secondary	23,287.3	527.1	5,965.6	378.5	18,715.8	601.0	48.5	0.7	9,688.9	324.1
Combined	1,484.0	88.8	559.7	70.9	1,177.8	95.0	46.1	1.9	7,230.0	478.3
School size										
0-149	4,410.7	377.2	2,031.1	201.0	3,142.0	322.7	46.0	2.3	3,854.4	179.8
150-299	9,563.8	547.9	3,436.1	397.7	7,414.6	594.6	46.8	1.8	4,724.6	202.9
300-599	25,136.9	815.2	8,133.9	574.4	18,236.1	865.9	48.8	0.9	5,821.9	177.0
600 or more	23,278.8	706.3	5,382.7	445.2	20,563.8	709.5	47.3	0.7	9,957.9	251.7
Free lunch eligibility										
Less than 20 percent	20,697.9	818.4	5,360.0	410.0	18,526.4	911.6	46.4	1.0	8,594.0	244.7
20-49 percent	20,611.9	784.9	6,955.3	559.7	16,072.5	807.4	47.2	0.9	6,261.2	168.7
50 percent or more	18,406.0	737.3	5,602.0	457.0	12,660.6	724.9	50.2	1.2	5,540.9	270.4
♥ ○ PRIVATE										
School level										
Elementary	2,158.2	225.8	7,095.1	320.9	2,630.5	273.5	18.2	1.5	2,232.1	146.3
Secondary	1,947.3	166.2	2,727.7	244.1	1,924.4	191.9	29.5	1.8	5,826.5	551.7
Combined	1,265.9	81.8	2,972.7	297.7	1,069.8	132.2	23.8	1.8	4,375.2	350.8
	1,200.	01.0	2,> / 2	_,	1,000.0	102.2	20.0	1.0	.,575.2	550.0
School size										
0-149	956.4	145.4	3,697.4	436.2	1,182.3	256.0	16.4	2.7	1,193.9	104.6
150-299	1,363.1	123.2	4,034.6	293.4	1,392.6	175.4	20.1	1.3	3,270.8	185.5
300-599	1,574.0	183.1	2,523.9	157.2	1,601.2	169.1	27.6	1.6	5,266.8	373.8
600 or more	833.9	59.4	1,088.7	87.9	796.2	79.4	30.7	1.4	13,520.5	966.2
Orientation										
Catholic	2,661.8	159.8	5,593.1	176.0	2,268.7	171.0	25.3	1.3	2,985.2	104.8
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NOTE: Statistics are based on the 92 percent of schools with library media centers. Details may not add to totals because of cell suppression. Survey of American Indian schools was a census, so no standard errors are included; however, Indian schools are included in the overall totals to maintain comparability with other data.

SOURCE: U.S. Department of Education, National Center for Education Statistis, Schools and Staffing Survey: 1993-94, Library Media Center Questionnaire.

School characteristic	Percent who are regular full-time librarian at sampled school		Percent with master's degrees who have MLS from an ALA accredited program		Percent who had library- related in-service or college courses during 1989-1994		Percent who are certified by their state as a library media specialist		Percent who said personal improvement was major purpose for training in 1989-94, of those receiving training	
	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error
TOTAL	65.0	0.9	47.9	1.4	82.7	0.8	77.3	0.8	54.9	1.0
PUBLIC										
School level										
Elementary	62.4	1.4	46.0	2.3	84.3	1.3	79.4	1.1	52.0	1.6
Secondary	76.2	1.4	49.0	1.1	87.7	1.0	90.8	1.0	59.4	1.3
Combined	61.0	3.9	42.6	3.0	84.6	1.6	87.5	1.5	45.0	4.1
School size										
0-149	21.9	3.1	37.5	6.9	87.7	2.9	85.4	2.8	50.6	4.9
150-299	36.6	2.5	44.7	4.2	84.4	2.7	81.9	2.4	50.9	2.6
300-599	67.2	1.4	48.7	2.4	86.0	1.3	81.2	1.4	54.8	1.5
600 or more	89.8	1.3	46.2	2.0	84.3	1.6	85.0	1.7	55.4	2.1
Free lunch eligibility										
Less than 20 percent	67.9	2.0	50.6	2.7	89.3	1.2	87.0	1.4	57.7	1.7
20-49 percent	66.7	2.3	41.8	2.4	82.0	1.7	82.6	1.5	51.9	2.2
50 percent or more	65.3	2.4	46.4	3.0	84.5	1.5	78.4	2.0	52.3	2.5
PRIVATE										
School level										
Elementary	40.8	2.3	54.5	3.6	61.1	2.3	22.2	1.8	65.0	2.5
Secondary	69.8	2.3	64.7	2.4	67.2	2.0	47.8	2.2	56.4	2.7
Combined	57.8	4.0	55.6	3.4	60.6	3.6	36.3	3.3	64.1	2.9
School size										
0-149	75.2	4.2	58.4	7.7	56.5	5.9	33.2	5.5	61.6	6.1
150-299	41.4	2.3	53.5	3.7	58.8	2.2	20.9	1.8	65.6	3.1
300-599	67.1	3.1	59.0	4.0	68.9	2.7	36.1	2.8	61.0	2.8
600 or more	86.4	2.5	59.9	2.6	71.9	2.9	58.9	3.6	57.4	3.3
Orientation										
Catholic	54.5	2.3	55.0	2.5	64.1	1.8	30.0	1.9	64.2	2.5

NOTE: Statistics are based on the 92 percent of schools with library media centers. Details may not add to totals because of cell suppression. Survey of American Indian schools was a census, so no standard errors are included; however, Indian schools are included in the overall totals to maintain comparability with other data.

SOURCE: U.S. Department of Education, National Center for Education Statistis, Schools and Staffing Survey: 1993-94, Library Media Specialist/Librarian Questionnaire.

Table III-2.—Selected estimates and sta	ingarg erro	ors for surv	ey of school	norary med	na centers'	nead Iibrai			T B : 1	1 '.1
School characteristic	Mean years since first worked as librarian		Mean total years worked as librarian		Mean age		Mean hours spent on job- related activities outside of contractual day		math teacl	o work with ners at least lan instruction
	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error	Estimate	Standard error
TOTAL	12.4	0.2	11.9	0.2	46.8	0.2	6.8	0.1	34.1	1.0
PUBLIC										
School level										
Elementary	11.7	0.3	11.3	0.2	46.0	0.3	7.1	0.2	34.7	1.6
Secondary	14.8	0.2	14.2	0.2	47.5	0.2	6.8	0.1	36.9	1.2
Combined	13.6	0.5	13.1	0.5	45.9	0.5	5.7	0.3	29.4	3.1
School size										
0-149	12.3	0.7	12.2	0.7	46.1	0.6	6.5	0.4	29.9	5.2
150-299	11.7	0.7	11.3	0.5	46.1	0.5	7.4	0.3	26.9	2.7
300-599	12.1	0.4	11.7	0.4	46.1	0.3	7.1	0.2	37.2	1.9
600 or more	13.8	0.3	13.3	0.3	47.0	0.3	6.7	0.2	38.9	1.5
Free lunch eligibility										
Less than 20 percent	13.4	0.3	12.6	0.3	46.9	0.3	7.7	0.2	36.9	2.2
20-49 percent	12.8	0.4	12.5	0.4	46.4	0.4	6.4	0.2	33.7	1.9
50 percent or more	11.7	0.3	11.6	0.3	45.9	0.3	7.3	0.3	38.1	2.2
PRIVATE										
School level										
Elementary	9.2	0.5	8.4	0.4	49.4	0.6	5.7	0.2	24.8	2.4
Secondary	11.7	0.5	11.2	0.4	49.0	0.5	5.3	0.2	22.1	2.3
Combined	9.6	0.6	9.2	0.6	46.6	0.9	5.3	0.3	21.9	2.7
School size										
0-149	10.8	1.2	8.5	0.9	50.3	1.2	4.4	0.4	17.5	4.8
150-299	9.0	0.5	8.8	0.4	48.4	0.7	5.5	0.3	26.8	2.9
300-599	9.9	0.5	9.2	0.4	48.7	0.8	6.6	0.3	22.9	2.7
600 or more	12.8	0.7	12.5	0.6	49.9	0.6	5.6	0.2	32.1	2.8
Orientation										
C 4 1:	10.0	0.4	0.6	0.4	50.2	0.6	~ 4	0.0	242	2.2

SOURCE: U.S. Department of Education, National Center for Education Statistis, Schools and Staffing Survey: 1993-94, Library Media Specialist/Librarian Questionnaire.

IV. Sample Design and Implementation²

The sample for the Library Survey consisted of a subsample of the public and private schools selected for the 1993-94 Schools and Staffing Survey (SASS)³ and all elementary and secondary schools funded by the Bureau of Indian Affairs (BIA). For each selected school, the sample units were the school's library media center and the head librarian.

Table IV-1 displays the number of schools in the original sample design for the Library Survey by sector and level. (In actuality, 5,010 schools were selected for the public sector and 2,536 for the private sector. The number of BIA schools selected was 176.)

Table IV-1.—Number of schools selected for the Library Survey							
	Level						
Sector	Elementary	Combined	Secondary	Total			
Bureau of Indian Affairs (BIA)	122	29	25	176			
Public (non-BIA)	2,274	698	2,022	4,994			
Private	1,337	673	490	2,500			
Total	3,733	1,400	2,537	7,670			

²For a detailed description of the sample design, see R. Abramson, C. Cole, S. Fondelier, B. Jackson, R. Parmer, and S. Kaufman, 1993-94 Schools and Staffing Survey: Sample Design and Estimation, U.S. Department of Education, National Center for Education Statistics, NCES 95-089, or 1993-94 Schools and Staffing Survey: Data File User's Manual, U.S. Department of Education, National Center for Education Statistics.

³For a complete description of the 1993-94 Schools and Staffing Survey, see *1993-94 Schools and Staffing Survey: Data File User's Manual*, U. S. Department of Education, National Center for Education Statistics.

V. Data Collection Procedures

The 1993-94 Library Survey data were collected for the National Center for Education Statistics (NCES) by the Bureau of the Census during the 1993-94 school year. The data collection operations were concurrent with those for the Schools and Staffing Survey. The Library Media Center Questionnaires and the Library Media Specialist/Librarian Questionnaires were mailed to selected public, private, and BIA schools in October 1993. The Library Media Center Questionnaires were addressed to "Principal" and the Library Media Specialist/Librarian Questionnaires were addressed to "Library Media Specialist/Librarian." For the library media center form, the respondent could have been the school librarian or another school employee who was familiar with the library. The only eligible respondent for the librarian questionnaire was the head librarian or the school staff member whose main assignment was to oversee the library.

The questionnaires included a letter that, as required by the Office of Management and Budget (OMB), explained the purpose of the survey and stated that participation in the survey was voluntary. Also included on the questionnaires were instructions for filling the form and a toll-free Census Bureau telephone number that respondents could call if they needed information or assistance in completing the questionnaire.

Reminder postcards were mailed 1 week after the questionnaires; about 6 weeks later, second questionnaires were mailed to those schools that had not returned the original forms. Beginning in January 1994, Census Bureau staff called schools that had not returned the questionnaires and conducted computer-assisted telephone interviews (CATI) to collect the data. A few cases where the CATI interviewers were unable to collect the data were assigned to field representatives (FRs) associated with the 12 Census regional offices. These FRs completed paper questionnaires while collecting the data over the telephone.

Table V-1 summarizes the number of sample cases included in each step of data collection.

Table V-1.—Data collection summary								
	Mailed first	Mailed	Mailed second		In CATI		lephone	
Questionnaire	questionnaire	questio	nnaire	followup		follow-up		
	Number	Number	Percent	Number	Percent	Number	Percent	
Library media								
centers								
Public (LS-1A)	5,026	2,807	55.8	1,940	38.6	385	7.7	
Private ¹ (LS-1B)	2,536	1,687	66.5	1,098	43.3	159	6.3	
Indian (LS-1C)	160	95	59.4	57	35.6	9	5.6	
Librarians								
Public (LS-2A)	5,026	2,549	50.7	1,382	27.5	342	6.8	
Private (LS-2B)	2,536	1,613	63.6	1,004	39.6	186	7.3	
Indian ¹ (LS-2C)	160	89	55.6	51	31.9	8	5.0	

¹The Indian School Library Media Center Questionnaire (LS-1C) and the Indian School Library Media Specialist/Librarian Questionnaire (LS-2C) were mailed to schools funded by the Bureau of Indian Affairs (BIA) if they were not operated by a local school district. Sixteen BIA schools operated by school districts were sent the public school library and librarian questionnaires (LS-1A and LS-2A).

VI. Response Rates

A. Survey Response Rates The weighted and unweighted response rates for the 1993-94 Library Survey are shown in Tables VI-1 - VI-3. Response rates by state are provided for public school libraries and librarians; rates by three affiliation categories (Catholic, other religious, nonsectarian) are given for the private sector. For BIA schools, only the national response rates are shown.

The unweighted response rates were calculated by dividing the number of interview cases by the number of eligible cases. The number of eligible cases was the number of sample cases minus the number of cases that were out of scope for the survey. Out-of-scope cases included those where the school was closed, the school had no library media center, or, for the librarian questionnaire, the school had no librarian. (For a more detailed discussion of interviewed cases and out-of-scope cases, see section VII.D of these technical notes.)

The weighted rates were calculated by dividing the sum of the basic weights for the interview cases by the sum of the basic weights for the eligible cases. For each sample case, the basic weight was assigned at the time of sample selection and is the inverse of the probability of selection. Because all BIA schools were selected for the survey, the weighted and unweighted response rates for these schools are the same.

Table VI-1.—Unweighted and weighted response rates for public school library media centers and head librarians, by state

centers und	Library	media centers	Head librarians			
State	Unweighted	Weighted	Unweighted	Weighted		
Total	91.1%	90.1%	93.5%	92.3%		
Alabama	96.6	97.8	94.6	95.8		
Alaska	79.8	73.8	87.5	80.8		
Arizona	94.8	97.0	95.5	95.4		
Arkansas	97.5	96.8	92.4	91.6		
California	81.4	82.1	87.0	87.5		
Colorado	93.8	89.2	90.3	87.1		
Connecticut	88.2	86.9	97.0	96.0		
Delaware	90.9	89.6	95.1	93.8		
District of Columbia	84.1	85.4	85.0	86.1		
Florida	95.6	97.5	95.3	93.9		
Georgia	93.3	96.2	94.4	93.6		
Hawaii	97.1	97.1	95.6	95.5		
Idaho	95.2	94.8	95.5	94.7		
Illinois	87.5	89.1	91.2	91.0		
Indiana	97.6	96.5	97.5	97.4		
Iowa	96.2	96.8	97.3 95.9	96.4		
Kansas	95.0	95.0	94.9	95.9		
Kentucky	87.3	84.6	92.0	90.3		
	80.8	80.2	98.9	97.9		
Louisiana	92.6	89.4	92.7	90.8		
Maine	92.6 91.6	89.4 89.5	92.7 97.6	95.4		
Maryland Massachusetts		87.6	91.4	88.5		
	90.5					
Michigan	90.8	91.0	93.0	90.6		
Minnesota	91.5	92.2	96.0	97.1		
Mississippi	90.4	91.3	90.1	91.0		
Missouri	92.9	93.1	97.4	96.2		
Montana	89.5	85.8	92.7	89.9		
Nebraska	79.7	79.8	81.4	84.8		
Nevada	89.8	89.6	90.6	89.7		
New Hampshire	97.0	96.4	98.2	98.2		
New Jersey	85.9	83.0	94.9	94.5		
New Mexico	92.9	89.9	93.9	93.5		
New York	88.9	85.4	92.6	91.6		
North Carolina	90.7	91.1	95.7	95.5		
North Dakota	88.8	82.9	90.5	87.5		
Ohio	92.1	88.6	90.5	85.5		
Oklahoma	91.5	90.3	94.4	94.0		
Oregon	95.2	94.7	94.3	93.5		
Pennsylvania	89.8	92.0	97.6	99.4		
Rhode Island	92.4	92.2	95.4	94.7		
South Carolina	96.2	92.2	97.4	97.5		
South Dakota	85.4	81.4	90.9	91.2		
Tennessee	94.5	90.8	92.1	86.3		
Texas	93.6	95.3	90.5	87.2		
Utah	93.9	94.6	95.6	96.0		
Vermont	92.7	91.9	95.1	95.6		
Virginia	91.7	91.7	90.2	90.6		
Washington	96.0	96.2	97.8	96.8		
West Virginia	89.0	85.4	95.2	93.6		
Wisconsin	92.0	92.0	94.0	96.4		
Wyoming	93.9	87.2	96.2	95.0		

As shown in Table VI-2, the weighted response rates for private schools with no religious affiliation and those affiliated with non-Catholic denominations were significantly lower than those for public schools and Catholic schools.⁴ For some of these nonresponse cases, the school reported on the SASS Private School Questionnaire (SASS-3B) that there was a school library but reported in the Library Media Center Questionnaire (LS-1B) that there was no library. Because the Library Survey response was made consistent with the SASS response, cases that had been classified as out of scope for the survey became noninterviews. There are several possible reasons for the inconsistent responses to SASS and the Library Survey—perhaps (1) the school had a library but the respondent did not think it met the definition on the front of the Library Media Center Questionnaire or decided to avoid filling the Library Survey questionnaires by reporting there was no library, or (2) the school had a noncentralized collection of books or other media in its classrooms and this collection, which does not fit the definition of a library media center on the Library Survey questionnaire, was erroneously reported as a library on the SASS school questionnaire.

Table VI-2.—Unweighted and weighted response rates by school affiliation for private school library media centers and head librarians

School	Library media centers		Librarians		
affiliation	Unweighted	Weighted	Unweighted	Weighted	
United States	77.7%	70.7%	83.9%	76.5%	
Catholic	84.9	81.8	88.6	85.6	
Other religious	71.8	59.3	75.7	57.8	
Nonsectarian	78.7	69.5	90.1	88.3	

Table VI-3.—Survey response rates for Bureau of Indian Affairs (BIA) school library media centers and head librarians

	Library media centers	Librarians
United States	90.5%	88.8%

⁴Because the data collected may not be representative of these types of schools, they are not presented by affiliation category in the data tables.

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B. Item Response Rates

Tables VI-4 and VI-5 summarize the item response rates for the components of the Library Survey. Tables VI-6 and VI-7 display the unweighted item response rates for the items used in this report. The response rate for each item is defined as the number of cases where respondents answered the question divided by the universe for the item (i.e., the number of respondents who should have answered the question). The response rates for all items used in this report were above 75 percent. These response rates are unweighted and do not reflect additional response loss due to respondents' refusal to participate in the survey.

Table VI-4.—Summary of unweighted item response rates by questionnaire								
	Range of item response	Percent of items with a	Percent of items with a					
Questionnaire		response rate of	response rate of					
	rates	90% or more	less than 75%					
Library Media Centers								
Public (LS-1A)	57-99%	81%	5%					
Private (LS-1B)	66-99	80	4					
Indian (LS-1C) ¹	61-100	82	1					
Librarians								
Public (LS-2A)	61-100	87	6					
Private (LS-2B)	50-100	80	11					
Indian (LS-2C) ¹ ······	56-100	87	5					

¹The Indian School Library Media Center Questionnaire (LS-1C) and the Indian School Library Media Specialist/Librarian Questionnaire (LS-2C) were mailed to schools funded by the Bureau of Indian Affairs (BIA) if they were not operated by a local school district. Sixteen BIA schools operated by school districts were sent the public school library and librarian questionnaires (LS-1A and LS-2A).

Γable VI-5.—Items with unweighted response rates of less than 75 percent			
Questionnaire	Items ²		
Library Media Centers			
Public (LS-1A)	5a(other AV), 5b(subscriptions), 5b(other AV), 5c(other AV), 25		
Private (LS-1B)	5b(subscriptions), 5b(other AV), 5c(video), 25		
Indian (LS-1C) ¹ ······	25		
Librarians			
Public (LS-2A)	14d(Ph.D.), 18b(5), 18b(6), 18b(7), 18b(8), 18b(9), 18b(10)		
Private (LS-2B)	14c(ed.spec.), 14d(ed.spec.), 14c(Ph.D.), 14d(Ph.D.), 18b(1), 18b(4), 18b(5), 18b(6),		
	18b(7), 18b(8), 18b(9), 18b(10), 26d		
Indian (LS-2C) ¹ ······	18b(4), 18b(6), 18b(7), 18b(8), 18b(9), 18b(10)		

¹The Indian School Library Media Center Questionnaire (LS-1C) and the Indian School Library Media Specialist/Librarian Questionnaire (LS-2C) were mailed to schools funded by the Bureau of Indian Affairs (BIA) if they were not operated by a local school district. Sixteen BIA schools operated by school districts were sent the public school library and librarian questionnaires (LS-1A and LS-2A).

²The wording of these questionnaire items can be found in SASS and PSS Questionnaires: 1993-94, U.S. Department of Education, National Center for Education Statistics, NCES 94-674, or 1993-94 Schools and Staffing Survey: Data File User's Manual, U.S. Department of Education, National Center for Education Statistics.

Item la. Number of state-certified library media specialists in library media center (LMC) Full time M012 98.7% 99.3% 97.9%	Table VI-6.—Unweighted item response r	ates for libra	ry media cei	nters	
Item Ia. Number of state-certified library media specialists in library media center (LMC) Full time	Item description	Variable		Response rate	
Specialists in library media center (LMC)			Public	Private	BIA
Full time					
At least 1/4 time but less than full time					
At least 1/2 time but less than 3/4 time					
At least 1/4 time but less than 1/2 time					
Less than I/4 time		M014			
Total		M015			
Item 1b. Number of professional staff in LMC who were not certified as library media specialists Full time	Less than 1/4 time				
Full time		M017	98.9	99.3	97.2
Full time					
At least 1/2 time but less than full time	• •				
At least 1/2 time but less than 3/4 time		M019			98.6
At least 1/4 time but less than 1/2 time	At least 3/4 time but less than full time	M020	98.1	97.5	100.0
Less than 1/4 time	At least 1/2 time but less than 3/4 time	M021	98.1	97.5	100.0
Total	At least 1/4 time but less than 1/2 time	M022	98.1	97.5	100.0
Full time M026 99.3 98.8 99.3 At least 3/4 time but less than full time M027 99.3 98.8 99.3 At least 3/4 time but less than 3/4 time M028 99.4 98.8 99.3 At least 1/2 time but less than 3/4 time M028 99.4 98.8 99.3 At least 1/4 time but less than 1/2 time M029 99.3 98.8 99.3 Less than 1/4 time M030 99.3 98.8 99.3 Total M030 99.3 98.8 99.3 M030 99.3 98.8 99.3 M031 99.6 99.1 99.3 M031 M030 99.3 M031 M03	Less than 1/4 time	M023	98.2	97.5	98.6
Full time		M024	98.1	98.2	97.9
At least 3/4 time but less than full time	Item 1c. Number of other paid LMC staff				
At least 1/2 time but less than 3/4 time		M026	99.3	98.8	99.3
At least 1/4 time but less than 1/2 time		M027	99.3	98.8	99.3
Less than 1/4 time	At least 1/2 time but less than 3/4 time	M028	99.4	98.8	99.3
Total	At least 1/4 time but less than 1/2 time	M029	99.3	98.8	99.3
Item 5a(1). Number of books acquired during 1992-93 school year for LMC	Less than 1/4 time	M030	99.3	98.8	99.3
93 school year for LMC	Total	M031	99.6	99.1	99.3
Item 5b(1). Number of books held at end of 1992-93 School year	Item 5a(1). Number of books acquired during 1992-				
Mo51 S1.0 76.7 78.3 Rem 5c(1). Amount of expenditure for books during 1992-93 school year Mo52 S9.0 S8.7 S2.5 Rem 5c(2). Amount of expenditure for serial subscriptions during 1992-93 school year Mo55 S6.6 S1.1 S3.9 Rem 5c(3). Amount of expenditure for video materials during 1992-93 school year Mo58 78.9 74.5 S3.2 Rem 6. Amount of total expenditure for library media center materials during 1992-93 school year Mo68 90.9 S6.2 S9.5 Rem 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC Mo69 92.1 94.5 92.3 Rem 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC Mo70 S8.8 S8.5 93.0 Rem 7c. Amount of expenditure for online database searching and electronic communications for LMC Mo71 92.7 93.5 92.3 Rem 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Rem 12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Rem 12c. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Rem 12g. Whether LMC had online database searching M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reach of the spenditure for database M114 98.6 97.7 97.9 Reac	93 school year for LMC	M050	87.8	85.4	86.7
Item 5c(1). Amount of expenditure for books during 1992-93 school year	Item 5b(1). Number of books held at end of 1992-93				
1992-93 school year	school year	M051	81.0	76.7	78.3
Item 5c(2). Amount of expenditure for serial subscriptions during 1992-93 school year M055 86.6 81.1 83.9 Item 5c(3). Amount of expenditure for video materials during 1992-93 school year M058 78.9 74.5 83.2 Item 6. Amount of total expenditure for library media center materials during 1992-93 school year M068 90.9 86.2 89.5 Item 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC M069 92.1 94.5 92.3 Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item 12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9	Item 5c(1). Amount of expenditure for books during				
Item 5c(2). Amount of expenditure for serial subscriptions during 1992-93 school year M055 86.6 81.1 83.9 Item 5c(3). Amount of expenditure for video materials during 1992-93 school year M058 78.9 74.5 83.2 Item 6. Amount of total expenditure for library media center materials during 1992-93 school year M068 90.9 86.2 89.5 Item 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC M069 92.1 94.5 92.3 Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item 12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9	1992-93 school year	M052	89.0	88.7	82.5
subscriptions during 1992-93 school year M055 86.6 81.1 83.9 Item 5c(3). Amount of expenditure for video M058 78.9 74.5 83.2 Item 6. Amount of total expenditure for library M068 90.9 86.2 89.5 Item 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC M069 92.1 94.5 92.3 Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item 12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9					
Item 5c(3). Amount of expenditure for video M058 78.9 74.5 83.2 Item 6. Amount of total expenditure for library M068 90.9 86.2 89.5 Item 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC M069 92.1 94.5 92.3 Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item 12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9		M055	86.6	81.1	83.9
materials during 1992-93 school year M058 78.9 74.5 83.2 Item 6. Amount of total expenditure for library media center materials during 1992-93 school year M068 90.9 86.2 89.5 Item 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC M069 92.1 94.5 92.3 Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item 12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12g. Whether LMC had online database searching M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9					
Item 6. Amount of total expenditure for library media center materials during 1992-93 school year		M058	78.9	74.5	83.2
media center materials during 1992-93 school year M068 90.9 86.2 89.5 Item 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC M069 92.1 94.5 92.3 Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item 12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9					
Item 7a. Amount of expenditure for microcomputer hardware during 1992-93 school year for LMC M069 92.1 94.5 92.3 Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for LMC M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9		M068	90.9	86.2	89.5
hardware during 1992-93 school year for LMC					
Item 7b. Amount of expenditure for other audiovisual equipment during 1992-93 school year for M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC		M069	92.1	94.5	92.3
visual equipment during 1992-93 school year for M070 88.8 88.5 93.0 Item 7c. Amount of expenditure for online database searching and electronic communications for LMC					
Item 7c. Amount of expenditure for online database searching and electronic communications for LMC					
searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9	LMC	M070	88.8	88.5	93.0
searching and electronic communications for LMC M071 92.7 93.5 92.3 Item 12a. Whether LMC had a telephone M108 99.3 98.8 99.3 Item12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system M112 99.1 98.6 98.6 Item 12g. Whether LMC had online database searching M114 98.6 97.7 97.9	Item 7c. Amount of expenditure for online database				
Item 12a. Whether LMC had a telephone		M071	92.7	93.5	92.3
Item12c. Whether LMC had a computer with modem M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system	•	M108	99.3	98.8	99.3
M110 98.7 98.0 97.9 Item 12e. Whether LMC had an automated circulation system	<u> •</u>				
circulation system	•	M110	98.7	98.0	97.9
Item 12g. Whether LMC had online database searching	Item 12e. Whether LMC had an automated				
Item 12g. Whether LMC had online database searching	circulation system	M112	99.1	98.6	98.6
searching					
		M114	98.6	97.7	97.9
· · · · · · · · · · · · · · · · · · ·					
Item 21a. How classes in LMC were scheduled					
Item 24. Number of times per week LMC was used		-			
by					
Large groups of 2 or more classes	•	M150	96.2	95.6	98.6
Individual classes					
Small groups (less than one class)					
Special student groups M153 95.6 94.4 97.2					

Item description	Variable Response rate			
_		Public	Private	BIA
Item 5a. Whether librarian had another				
assignment at sample school	L022	99.6%	100.0%	100.0%
Item 5b. Librarian's other assignment at sample				
school	L023	99.0	99.5	93.3
Item 12a. Whether librarian had bachelor's				
degree	L036	99.8	99.2	99.1
Item 13a. Whether librarian had master's degree.	L041	99.9	99.9	100.0
Item 17a. Whether librarian was certified as				
library media specialist by state where school				
is located	L083	100.0	100.0	100.0
Item 17b. Type of certification held by librarian.	L084	99.0	98.9	98.8
Item 23a. Whether respondent planned to				
continue as a school librarian	L141	99.2	99.1	100.0
Item 26b(1). School (or school district) salary	L155	91.9	86.3	98.2
Item 27. Benefits provided by school or school				
district	L165-L174	98.6	97.8	99.1

VII. Edit Procedures

A. Clerical Edit

Questionnaires returned by individual respondents and those completed by field representatives in telephone followup were sent to the Census Bureau processing unit in Jeffersonville, Indiana. Upon receipt, clerks assigned codes to each questionnaire to indicate its status—e.g., complete interview, refusal, school does not have a library. Then they performed a general clerical edit that included reviewing all entries for legibility and making corrections, such as changing 'one' to '1' and rounding fractions to whole numbers.

After editing, the questionnaires were batched by type and by interview status (i.e., interviews, noninterviews, out of scope for the survey) for keying. Data entry personnel were instructed to correct all errors identified during the keying operation and to refer problem cases to their supervisor. To assure the quality of the data, all keying was independently verified at the 100 percent level.

B. Preliminary ISR Classification After data keying, the files of keyed data were merged with those from the computer-assisted telephone interviews (CATI). Each component of the survey — public school library media centers, private school librarians, etc. — was retained as a separate file.

The next step in processing was to make a preliminary determination of each case's interview status (ISR) — i.e., whether it was an interview, a noninterview, or was out of scope for the survey. In general, those cases with "out-of-scope" check-in codes (assigned by clerks) or "out-of-scope" outcome codes (assigned by CATI inteviewers) were classified as out of scope (ISR=3) for the preliminary ISR. Otherwise, cases with data entries were classified as interviews (ISR=1) and those with no data were classified as noninterviews (ISR=2).

C. Computer Edit

After the preliminary ISR classification, each file was submitted to a computer edit. This edit consisted of a range check, a consistency edit, and a blanking edit.

- The *range check* deleted entries that were outside the range of acceptable values.
- The *consistency edit* identified inconsistent entries within each record and, whenever possible, corrected them; if they could not be corrected, the entries were deleted. These inconsistencies could have been (1) within items (e.g., if "Yes" was marked in item 13a of the librarian questionnaire, indicating that the respondent had earned a master's degree, but the year recorded in item 13c was 1995 or later) or (2) between items (e.g., if the respondent marked "Parttime library media specialist/librarian" in item 2 of the librarian questionnaire, but marked "Full-time" in item 3). The consistency edit also filled some items where data were missing or incomplete by using other information on the data record (e.g., if the amount spent for microcomputer hardware was not reported in item 7a of the library questionnaire and the entry in item 11a indicated that the school did not have any microcomputers, zero (0) was entered in item 7a during the consistency edit).
- The *blanking edit* deleted extraneous entries and assigned the "not answered" (.N) code to items that should have been answered but were not. For example, if a respondent answered "No" to item 10a of the public school librarian questionnaire, indicating that he/she had never worked as a librarian in a private school, and recorded "0" in item 10b for number of years, the blanking would delete the "0" entry in item 10b.

Only records classified as interviews in the preliminary ISR were edited.

D. Final Interview Status Edit

After the range check, consistency edit, and blanking edit were complete, the records were put through an edit to make a final determination of whether the case was eligible for the survey and, if so, whether sufficient data had been collected for the case to be classified as

an interview. A final interview status recode (ISR) value was assigned to each case as a result of the edit.

1. Library Media Center Questionnaires (LS-1A, 1B, and 1C)

- a. A case was classified as **out-of-scope** (ISR=3) if:
 - The school (for which the library media center was selected) was classified as out-of-scope;⁵ or
 - The school did not have a library media center.
- b. A case was classified as an **interview** (ISR=1) if:
 - Neither of the conditions for out-of-scope cases was met;
 and
 - At least two of the following were reported number of certified library media specialists, number of professionals working in the library who were not certified library media specialists, number of other paid employees working in the library (clerks, aides, etc.), whether unpaid volunteers worked in the library; and
 - There were values for at least 30 percent of the minimum items that should be filled for the library.
- c. A case was classified as a **noninterview** (ISR=2) if the conditions for out-of-scope and interview cases were not met.

2. Library Media Specialist/Librarian Questionnaires (LS-2A, 2B, and 2C)

- a. A case was classified as **out-of-scope** (ISR=3) if:
 - The school named on the questionnaire was classified as out-of-scope;⁵ or
 - The school did not have a library media center; or
 - The school did not have a librarian: or
 - The librarian's main assignment at the school was some other position (e.g., if his/her main assignment was classroom teacher, guidance counselor, or school secretary).

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⁵A school was classified as out of scope if (1) it was no longer in operation, (2) it did not serve students in any of grades 1-12 or comparable ungraded levels, (3) the institution selected as a school was not a school (e.g., if it was a tutoring service or if it was an education agency or school district), or (4) the school was not in the sector for which it was selected (e.g., if a school selected as a private school was found to be a public school).

- b. A case was classified as an **interview** (ISR=1) if:
 - None of the conditions for out-of-scope cases was met;
 and
 - The respondent reported the year he/she began working as an elementary or secondary school librarian; and
 - The respondent answered at least one part of the educational background section; and
 - The respondent reported whether or not he/she was certified as a library media specialist; and
 - There were values for at least 30 percent of the minimum items that a respondent should fill.
- c. A case was classified as a **noninterview** (ISR=2) if the conditions for out-of-scope and interview cases were not met.

Table VII-1 shows the preliminary ISR and final ISR counts for each Library Survey component and the percent of change for each ISR classification.

Table VI	Table VII-1.—Preliminary and final ISR counts and percents of change									
		Pr	eliminary ISR	1		Final ISR		Pe	ercent change	
File	Sample	T., 4	Non-	Out-of-	T., 4	Non-	Out-of-	T., 4	Non-	Out-of-
	size	Interviews	interviews	scope	Interviews	interviews	scope	Interviews	interviews	scope
Libraries										
Public	5,026	4,321	252	453	4,242	413	371	- 1.8%	+ 63.9%	- 18.1%
Private.	2,536	1,706	245	585	1,607	460	469	- 5.8%	+ 87.8%	- 19.8%
Indian ¹	160	134	9	17	127	15	18	- 5.2%	+ 66.7%	+ 5.9%
Librarians										
Public	5,026	4,029	239	758	3,903	272	851	- 3.1%	+ 13.8%	+ 12.3%
Private.	2,536	1,226	265	1,045	1,138	218	1,180	- 7.2%	- 17.7%	+ 12.9%
Indian	160	107	10	43	98	13	49	- 8.4%	+ 30.0%	+ 14.0%

¹The Indian School Library Media Center Questionnaire (LS-1C) and the Indian School Library Media Specialist/Librarian Questionnaire (LS-2C) were mailed to schools funded by the Bureau of Indian Affairs (BIA) if they were not operated by a local school district. Sixteen BIA schools operated by school districts were sent the public school library and librarian questionnaires (LS-1A and LS-2A).

VIII. Imputation

For questionnaire items that should have been answered but were not, values were imputed by (1) using data from other items on the questionnaire, (2) extracting data from a related component of the Library Survey or the Schools and Staffing Survey (SASS) (for example, using data from a SASS school record to impute missing values on the record for the school's library media center), and (3) extracting data from the record for a sample case with similar characteristics

(commonly known as the "hot-deck" method for imputing for item $nonresponse^6$).

For some incomplete items, the entry from another part of the questionnaire, a related questionnaire, or a similar sample case (donor) was directly imputed to complete the item; for others the entry was used as part of an adjustment factor with other data on the incomplete record. For example, if a respondent did not report whether the library media center had any unpaid volunteers in item 4b, the response (Yes or No) for the library media center for a similar school was imputed to item 4b of the incomplete record. However, if a respondent had answered "Yes" to item 4a but had not reported the number of student volunteers in item 4b, the ratio of the number of student volunteers to total enrollment for a similar school was used with the enrollment at the school for which item 4b of the library media center record was incomplete to impute an entry to item 4b (i.e., LMC#1 item 4b = enrollment at school where LMC#1 is located multiplied by ratio of LMC(donor) item 4b to enrollment of school where LMC(donor) is located).

The procedures described above were carried out by computer processing. However, for a few items there were cases where entries were clerically imputed. The data record, the records for related sample cases, and, in some cases, the questionnaire were reviewed and an entry consistent with the information from those sources was imputed. This procedure was used when (1) there was no suitable record to use as a donor, (2) the computer method produced an imputed entry that was outside the acceptable range for the item, or (3) there were very few cases where an item was unanswered (usually less than 10).

Values were imputed to items with missing data within records classified as interviews (ISR=1). Noninterview adjustment factors were used during the weighting process to compensate for data that were missing because the sample case was a noninterview (ISR=2).

⁶Kalton, G. and Kasprzyk, D. (1982), "Imputing for Missing Survey Responses," *Proceedings of the Section on Survey Research Methods*, American Statistical Association, 22-31; Kalton, G. (1983), *Compensating for Missing Survey Data*. Ann Arbor: Survey Research Center, University of Michigan; Kalton, G. and Kasprzyk, D. (1986), "The Treatment of Missing Survey Data," *Survey Methodology*, Vol. 12, No.1, pp. 1-16; Little, R. J. A., and Rubin, D. B. (1987), *Statistical Analysis with Missing Data*, John Wiley and Sons; Madow, W. G., Olkin, I., and Rubin, D. B. (eds.) 1983, *Incomplete Data in Sample Surveys*, Vols. 1, 2, and 3, New York, Academic Press.

A. Library Media Center Questionnaires

Data were imputed to items with missing values in the following three stages.

1. First Stage Imputation for Library Media Centers

In the first stage, items with missing values were completed whenever possible by using information about the school library from the following sources:

• Other questionnaire items on the library record - Based on entries from related items on the library record, some assumptions were made about how the respondent probably should have answered items with missing values. For example, if item 1a (number of certified library media specialists) was unanswered and item 2 indicated that none of the library's staff had a bachelor's or higher degree, the assumption was made that the library had no certified library media specialists and zero was imputed to item 1a. Items used in this report that may have been completed by using data from other Library Media Center Questionnaire (LS-1A/1B/1C) entries are listed in Table VIII-1.

Table VIII-1.—Library Media Center Questionnaire items imputed by using other data on record

100014	
Imputed item	Source items
Item 1a. Number of state-certified library media	Item 1b. Number of library professional staff who were not certified as library
specialists	media specialists
	Item 2. Number of library professional staff by college degree
Item 1b. Number of library professional staff who	Item 1a. Number of state-certified library media specialists
were not certified as library media specialists	
Item 5. 1992-93 library media center collection,	Item 6. Total expenditure for library media center materials
acquisitions, and expenditures	Item 11. Whether school has microcomputers
	Item 12. Whether library media center has computer-related equipment or
	services
	Item 27. Circulation policies and availability of selected library media center
	materials
Item 6. Total expenditure for library media center	Item 5. 1992-93 library media center collection, acquisitions, and expenditures
materials	
Item 7. Expenditure for microcomputer hardware,	Item 11. Whether school has microcomputers
other audio-visual equipment, and online services	Item 12. Whether library media center has computer-related equipment or
	services
	Item 27. Circulation policies and availability of selected library media center
	materials
Items 12c,e,g, and j. Whether library media center	Item 11. Whether school has microcomputers
has computer-related equipment or services	

• The matching Library Media Specialist/Librarian Questionnaire (LS-2A/2B/2C) - If items related to professional staff were unanswered on the library record, information from the matching librarian questionnaire was used to complete the items whenever possible. For example, if item 2 (degrees earned by professional staff) was unanswered, the library had only one professional staff member, and the LS-2 indicated the he/she had a master's degree,

then "1" was imputed to part c of item 2 and zero was imputed to parts a, b, and d. Items 1a, 1b, 2, and 3 were imputed by using information from the LS-2.

• The matching SASS School Questionnaire (SASS-3A/3B/3C) - For a few items with missing values, data from the matching school record were used to impute the entries. For example, if item 1a was unanswered and entries on the school record indicated that the school did not have a librarian, zero was imputed to item 1a of the library record. These Library Media Center Questionnaire (LS-1) items were completed with data from the matching SASS school record: Items 1a, 1b, and 1d (LS-1B only).

2. Second Stage Imputation for Library Media Centers

In general, the second stage of imputation filled unanswered items by using data from the record for a library of a similar school, i.e., a school that was the same level, of similar size, located in same type of community, etc. Variables that described certain characteristics of the schools (e.g., enrollment size and instructional level) were copied from the matching school record. In addition, a variable that categorizes the size of the library was created by using the number of books held at the end of the 1992-93 school year (recorded in item 5 of the Library Media Center Questionnaire). These school variables and the library variable were used to sort the library records and to match incomplete records to those with complete entries (donors).

For some items, such as item 8 (respondent's assessment of quality of library's collection), data were directly copied to the record with the missing value. For others, however, such as item 25 (number of students who used library in a week), entries on the donor record were used as factors along with other information on the incomplete record to fill the items with missing values. For example, if the number of subscriptions acquired was reported in item 5 for Library#1 but the number held was not, the donor's ratio of subscriptions held to subscriptions acquired was used with the number of subscriptions acquired by Library#1 to impute the number held by Library#1.

The library records were sorted as follows:

• Public school library media centers (LS-1A) - The variables used to sort the LS-1A records and to match incomplete records with donors are defined in Table VIII-2.

- The LS-1A records were sorted so that records for libraries of similar schools were near each other on the file. They were sorted in this order: STATE / ENR / LEVEL / URB / M051. M051 was the number of books held in the library at the end of the 1992-93 school year.
- Table VIII-3 shows the variables that were used to match incomplete records and donors for the LS-1A items used in this report that were imputed during the second stage. The order of collapse for the variables is also shown in Table VIII-3.

Table VIII-2.—Public school library media center (LS-1A) imputation variables			
Variable Name	Description	Values	
ENR	Enrollment size code for	1 = 1-299 students	
	school	2 = 300-599	
		3 = 600 or more	
		4 = Unknown	
LEVEL	Instructional level of school	1 = Elementary	
		2 = Combined or ungraded	
		3 = Secondary	
URB	Type of community where	1 = Large central city of SMSA	
	school is located	2 = Medium city of SMSA	
		3 = Urban fringe of a large city	
		4 = Urban fringe of a medium city	
		5 = Large town, not in SMSA	
		6 = Small town, not in SMSA	
		7 = Rural	
		8 = Unknown	
TYPE	Type of school	1 = Regular	
		2 = Special education	
		3 = Vocational education	
		4 = Alternative	
DATES OF		5 = Unknown	
BKCLSZ	Library book collection size	1 = 1-5,000 books	
		2 = 5,001-10,000	
		3 = 10,001-15,000	
		4 = 15,001-20,000	
		5 = More than 20,000	
		6 = Unknown	

Table VIII-3.—Public school library media center (LS-1A) matching variables and collapse ordering

01 000 1119		
Items ¹	Matching variables	Order of collapse
12	ENR, BKCLSZ, LEVEL	LEVEL, BKCLSZ, ENR
5(1)	ENR, LEVEL, TYPE	TYPE, LEVEL, ENR
5(2)-5(6), 6, 7	ENR, BKCLSZ, LEVEL	LEVEL, BKCLSZ, ENR
1c	ENR, LEVEL, BKCLSZ	BKCLSZ, LEVEL, ENR
21, 24	ENR, LEVEL, BKCLSZ	BKCLSZ, LEVEL, ENR

¹The data collected in these items are described in Table VI-6. For actual wording, see SASS and PSS Questionnaires: 1993-94, U.S. Department of Education, National Center for Education Statistics (NCES 94-674) or 1993-94 Schools and Staffing Survey: Data File User's Manual, U.S. Department of Education, National Center for Education Statistics.

• Private school library media centers (LS-1B) - The variables used to sort the LS-1B records and to match incomplete records with donors are defined in Table VIII-4.

The LS-1B records were sorted so that records for libraries of similar schools were near each other on the file. They were sorted in this order: AFFLG / ENR / LEVEL / URB / M051. M051 was the number of books held in the library at the end of the 1992-93 school year.

• Table VIII-5 shows the variables used to match incomplete records and donors for LS-1B items used in this report that were imputed during the second stage. The order of collapse for the variables is also shown in Table VIII-5.

Table VIII-4.—Private school library media center (LS-1B) imputation variables			
Variable name	Description	Values	
AFFLG	General affiliation of school	1 = Catholic	
		2 = Other religious affiliation	
		3 = No religious affiliation	
		4 = Unknown	
ENR	Enrollment size code for school	1 = 1-149 students	
		2 = 150-399	
		3 = 400 or more	
		4 = Unknown	
LEVEL	Instructional level of school	1 = Elementary	
		2 = Combined or ungraded	
		3 = Secondary	
URB	Type of community where	1 = Large central city of SMSA	
	school is located	2 = Medium city of SMSA	
		3 = Urban fringe of a large city	
		4 = Urban fringe of a medium city	
		5 = Large town, not in SMSA	
		6 = Small town, not in SMSA	
		7 = Rural	
		8 = Unknown	
BKCLSZ	Library book collection size	1 = 1-5,000 books	
		2 = 5,001-10,000	
		3 = 10,001-15,000	
		4 = 15,001-20,000	
		5 = More than 20,000	
		6 = Unknown	

Table VIII-5.—Priv	vate school library media center	(LS-1B) matching variables and
colla	npse ordering	
Items ¹	Matching variables	Order of collapse
12	AFFLG, ENR, LEVEL	LEVEL, ENR, AFFLG
5(1)	ENR, LEVEL, AFFLG	AFFLG, LEVEL, ENR
5(2)-5(6), 6, 7, 1c	AFFLG, ENR, BKCLSZ, LEVEL	LEVEL, BKCLSZ, ENR, AFFLG

¹The data collected in these items are described in Table VI-6. For actual wording, see SASS and PSS Questionnaires: 1993-94, U.S. Department of Education, National Center for Education Statistics (NCES 94-674) or 1993-94 Schools and Staffing Survey: Data File User's Manual, U.S. Department of Education, National Center for Education Statistics.

LEVEL, ENR, BKCLSZ

BKCLSZ, ENR, LEVEL

21, 24

• Indian school⁷ library media centers (LS-1C) - Because there were only 127 completed records (interviews) for Indian school libraries and the item response rates were high for most items, the second stage of imputation was done clerically. Other than the use of a variable that indicated whether the school was operated by BIA (BIAOP), the methodology was the same as that used to impute items on the LS-1A and LS-1B files, which were imputed by computer. For records where items had missing values, similar records (libraries for schools of same BIA type, similar size, level, etc.) were selected as donors. The variables used to clerically match incomplete records and donors were STATE, ENR, LEVEL, BKCLSZ, and BIAOP, which are defined in Table VIII-6.

Variable Name	Table VIII-6.—Indian school library media center (LS-1C) imputation variables			
school 2 = 300-599 3 = 600 or more 4 = Unknown LEVEL Instructional level of school 2 = Combined or ungraded 3 = Secondary URB Type of community where school is located 2 = Medium city of SMSA 3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown TYPE Type of school 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian		Description	Values	
LEVEL Instructional level of school 1 = Elementary 2 = Combined or ungraded 3 = Secondary URB Type of community where school is located 2 = Medium city of SMSA 3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown TYPE Type of school 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian	ENR	Enrollment size code for	1 = 1-299 students	
LEVEL Instructional level of school 2 = Combined or ungraded 3 = Secondary URB Type of community where school is located 2 = Medium city of SMSA 2 = Medium city of SMSA 3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown TYPE Type of school 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian		school	2 = 300-599	
LEVEL Instructional level of school 2 = Combined or ungraded 3 = Secondary URB Type of community where school is located 2 = Medium city of SMSA 3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown TYPE Type of school 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian			3 = 600 or more	
School URB Type of community where school is located Type of school EKCLSZ Library book collection size SECUNANOW BIAOP Type of BIA school Type of BIA school Type of community where schodard a secondary 1 = Large central city of SMSA 2 = Medium city of SMSA 3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 7 = Rural 8 = Unknown 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown 1 = 1-5,000 books 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school Type of BIA school			4 = Unknown	
URB Type of community where school is located Type of community where school is located Type of community where school is located Type of school Symsa Type of school Typ	LEVEL			
URB Type of community where school is located 1 = Large central city of SMSA 2 = Medium city of SMSA 3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian		school		
school is located 2 = Medium city of SMSA 3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian			· · · · · · · · · · · · · · · · · · ·	
3 = Urban fringe of a large city 4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 1 = 1-5,000 books 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian	URB			
4 = Urban fringe of a medium city 5 = Large town, not in SMSA 6 = Small town, not in SMSA 7 = Rural 8 = Unknown 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 1 = 1-5,000 books 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian		school is located		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				
6 = Small town, not in SMSA 7 = Rural 8 = Unknown 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian				
TYPE Type of school Type of s				
TYPE Type of school 8 = Unknown 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown 1 = 1-5,000 books 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian				
TYPE Type of school 1 = Regular 2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown BKCLSZ Library book collection size 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = Regular 2 = Special education 4 = Alternative 5 = Unknown 1 = 1-5,000 books 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown 1 = School is funded and operated by the Bureau of Indian				
2 = Special education 3 = Vocational education 4 = Alternative 5 = Unknown 1 = 1-5,000 books 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian	TVDE	Tama of sales of		
$\begin{array}{c} 3 = \text{Vocational education} \\ 4 = \text{Alternative} \\ 5 = \text{Unknown} \\ \\ 1 = 1\text{-}5,000 \text{ books} \\ \\ 2 = 5,001\text{-}10,000 \\ \\ 3 = 10,001\text{-}15,000 \\ \\ 4 = 15,001\text{-}20,000 \\ \\ 5 = \text{More than } 20,000 \\ \\ 6 = \text{Unknown} \\ \\ \text{BIAOP} \text{Type of BIA school} \\ \end{array}$	TTPE	Type of school		
## Alternative 5				
5 = Unknown 1 = 1-5,000 books 2 = 5,001-10,000 3 = 10,001-15,000 4 = 15,001-20,000 5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian				
BKCLSZ Library book collection $ \begin{array}{c} 1 = 1\text{-}5,000 \text{ books} \\ 2 = 5,001\text{-}10,000 \\ 3 = 10,001\text{-}15,000 \\ 4 = 15,001\text{-}20,000 \\ 5 = \text{More than } 20,000 \\ 6 = \text{Unknown} \\ \\ \text{BIAOP} \end{array} $ Type of BIA school $ \begin{array}{c} 1 = 1\text{-}5,000 \text{ books} \\ 2 = 5,001\text{-}10,000 \\ 3 = 10,001\text{-}15,000 \\ 6 = \text{Unknown} \\ 1 = \text{School is funded and operated by the Bureau of Indian} \\ \end{array} $				
size $2 = 5,001-10,000$ $3 = 10,001-15,000$ $4 = 15,001-20,000$ $5 = \text{More than } 20,000$ $6 = \text{Unknown}$ BIAOP Type of BIA school $1 = \text{School is funded and operated by the Bureau of Indian}$	BKCI S7	Library book collection		
3 = 10,001-15,000 $4 = 15,001-20,000$ $5 = More than 20,000$ $6 = Unknown$ $1 = School is funded and operated by the Bureau of Indian$	DICESE	•		
4 = 15,001-20,000 $5 = More than 20,000$ $6 = Unknown$ $1 = School is funded and operated by the Bureau of Indian$		5120		
5 = More than 20,000 6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian				
6 = Unknown BIAOP Type of BIA school 1 = School is funded and operated by the Bureau of Indian				
			•	
	BIAOP	Type of BIA school	1 = School is funded and operated by the Bureau of Indian	
Affairs (BIA)			Affairs (BIA)	
2 = School is funded by the BIA but operated by a tribe or			2 = School is funded by the BIA but operated by a tribe or	
other organization			other organization	

⁷Within this report, "Indian school" refers to schools funded by the Bureau of Indian Affairs (BIA) that were not operated by a local education agency (LEA). These schools may be operated by the BIA, a tribe, or a private contractor.

3. Clerical Imputation for Public and Private School Library Media Centers

These items were clerically imputed for some cases with missing values: 1, 2, 3, 4, 5, 6, 7, and 25.

B. Library Media Specialist/ Librarian Ouestionnaires

Data were imputed to items with missing values in the three stages described below.

1. First Stage Imputation for Librarians

In the first stage, items with missing values were completed whenever possible by using information about the school librarian from these sources:

• Other questionnaire items on the librarian record - Based on entries from related items on the librarian record, some assumptions were made about how the respondent should have answered items with missing values. For example, if the respondent did not report whether he/she was certified (in item 17a) and item 12 indicated that he/she did not have a bachelor's degree, the assumption was made that the respondent was not a certified library media specialist and "No" was imputed to item 17a. Items used in this report that may have been completed by using data from other Library Media Specialist/Librarian Questionnaire (LS-2A/2B/2C) entries are listed in Table VIII-7.

Table VIII-7.—Library Media Specialist/Librarian Questionnaire items imputed by using other data on record

Imputed item	Source items
Item 5a. Whether librarian had another	Item 1. Whether librarian was also a classroom teacher
assignment at sample school	at the sample school
Item 5b. Librarian's other assignment at the	Item 1. Whether librarian was also a classroom teacher
sample school	at the sample school
Item 12a. Whether librarian had bachelor's	Item 13a. Whether librarian had master's degree
degree	Item 14b. Whether librarian had education specialist or
	professional diploma or had a Ph.D.
Item 13a. Whether librarian had master's	Item 14b. Whether librarian had education specialist or
degree	professional diploma or had a Ph.D.
Item 17a. Whether librarian was certified as a	Item 12a. Whether librarian had a bachelor's degree
library media specialist	

• The matching Library Media Center Questionnaire (LS-1A/1B/1C) - If items related to educational background were unanswered on the librarian record, information from the matching library questionnaire was used to complete the items whenever possible. For example, if item 12a (whether respondent has bachelor's degree) were unanswered and the LS-1 indicated that all professional staff had a bachelor's degree or higher, "Yes" was imputed to item 12a of

the librarian record. Items 12a, 13a, 14, and 17 were imputed by using information from the LS-1.

2. Second Stage Imputation for Librarians

In general, the second stage of imputation filled unanswered items by using data from the record for a librarian at a similar school, i.e., a school that was the same level, of similar size, located in same type of community, etc. Variables that described certain characteristics of the schools (e.g., enrollment size and instructional level) were copied from the matching school record. In addition, variables that described some characteristics of the librarian (e.g., age and highest degree earned) were created from the LS-2 data. These school and librarian variables were used to sort the librarian records and to match incomplete records to those with complete entries (donors).

• For some items, such as item 21 (respondent's attitudes about work), data were directly copied to the record with the missing value. For others, however, such as item 11 (number of years that respondent had worked as a school librarian), entries on the donor record were used as factors along with other information on the incomplete record to fill the items with missing values. For example, if item 11 was unanswered for Librarian #1, the donor's ratio of years worked to number of years since first job as school librarian began would have been used with the number of years since Librarian#1 began his/her first job as a school librarian.

The librarian records were sorted as follows:

- Public school librarians (LS-2A) The variables used to sort the LS-2A records and to match incomplete records with donors are defined in Table VIII-8.
- The LS-2A records were sorted so that records for librarians at similar schools were near each other on the file. They were sorted in this order: STATE / LEVEL / ENR / URB / LEANUMBR / L180. LEANUMBR was a code that identified the school district for which the respondent worked and L180 was the respondent's year of birth.

Table VIII-9 shows the variables that were used to match incomplete records and donors for the LS-2A items used in this report that were imputed during the second stage. The order of collapse for the variables is also shown in Table VIII-9.

Table VIII-8.—Public school library media specialist/librarian (LS-2A) imputation variables

	ariables	
Variable name	Description	Values
ENR	Enrollment size code for	1 = 1-299 students
	school	2 = 300-599
		3 = 600 or more
		4 = Unknown
LEVEL	Instructional level of school	1 = Elementary
		2 = Combined or ungraded
		3 = Secondary
URB	Type of community where	1 = Large central city of SMSA
	school is located	2 = Medium city of SMSA
		3 = Urban fringe of a large city
		4 = Urban fringe of a medium city
		5 = Large town, not in SMSA
		6 = Small town, not in SMSA
		7 = Rural
		8 = Unknown
BKCLSZ	Library book collection size	1 = 1-5,000 books
		2 = 5,001-10,000
		3 = 10,001-15,000
		4 = 15,001-20,000
		5 = More than 20,000
		6 = Unknown
MINEN	Percent minority enrollment	1 = 0-5.4% are of minority race or ethnic origin
	at school	2 = 5.5-20.4%
		3 = 20.5-50.4%
		5 = 50.5-100%
		4 = Unknown
AGE	Respondent's age category	1 = Less than 30 years old
		2 = 30-45
		3 = 46-60
		4 = More than 60
LIBEXP	Years as a librarian in all	1 = 1-3 years
	schools	2 = 4-15
		3 = 16-30
		4 = More than 30
		5 = Unknown
HIGHDEG	Highest degree earned by	1 = Associate's degree or no degree
	respondent	2 = Bachelor's degree
		3 = Master's degree or higher
FUL-PART	Full-time/part-time status	1 = Full-time librarian at this school
		2 = Part-time librarian at this school
		3 = Unknown

Table VIII-9.—Public school library media specialist/librarian (LS-2A) matching variables and collapse ordering

	and conupse or acring		
Items ¹	Matching variables	Order of collapse	
5	ENR, LEVEL, BKCLSZ, URB	URB, BKCLSZ, LEVEL, ENR	
23	AGE, LIBEXP, LEVEL, URB	URB, LEVEL, LIBEXP, AGE	
17b	17b HIGHDEG, LEVEL, LIBEXP, AGE AGE, LIBEXP, LEVEL, HIGHDEG		
26, 27	7 STATE, HIGHDEG, LEVEL, LIBEXP, FUL-PART, URB URB, FUL-PART, LIBEXP, I		
		HIGHDEG	

¹The data collected in these items are described in Table VI-7. For actual wording, see SASS and PSS Questionnaires: 1993-94, U.S. Department of Education, National Center for Education Statistics (NCES 94-674) or 1993-94 Schools and Staffing Survey: Data File User's Manual, U.S. Department of Education, National Center for Education Statistics.

- Private school librarians (LS-2B) The variables used to sort the LS-2B records and to match incomplete records with donors are defined in Table VIII-10.
 - The LS-2B records were sorted so that records for librarians at similar schools were near each other on the file. They were sorted in this order: AFFLG / LEVEL / ENR / URB / L180. L180 was the respondent's year of birth.
- Table VIII-11 shows the variables that were used to match incomplete records and donors for the LS-2B items used in this report that were imputed during the second stage. The order of collapse for the variables is also shown in Table VIII-11.
- Indian school⁸ librarians (LS-2C) Because there were only 98 complete records (interviews) for Indian school librarians and the item response rates were high for most items, the second stage of imputation was done clerically. Other than the use of a variable that indicated whether the school was operated by BIA (BIAOP), the methodology was the same as that used to impute items on the LS-2A file, which was imputed by computer. For records where items had missing values, similar records (librarians of similar age and educational background who worked at schools of same BIA type, similar size, level, etc.) were selected as donors. The variables used to clerically match incomplete records and donors were STATE, ENR, LEVEL, BKCLSZ, AGE, HIGHDEG, FUL-PART, and BIAOP, which are defined in Table VIII-12.

⁸Within this chapter, "Indian school" refers to schools selected to receive the SASS-3C school questionnaire; i.e., schools funded by the Bureau of Indian Affairs (BIA) that were not operated by a local education agency (LEA). These schools may be operated by the BIA, a tribe, or a private contractor.

Table VIII-10.—Private school library media specialist/librarian (LS-2B) imputation variables				
Variable name	Description	Values		
AFFLG	General affiliation of school	1 = Catholic		
		2 = Other religious affiliation		
		3 = No religious affiliation		
END		4 = Unknown		
ENR	Enrollment size code for school	1 = 1-149 students		
		2 = 150-399		
		3 = 400 or more		
LEVEL	Instructional level of school	4 = Unknown		
LEVEL	Histractional level of school	1 = Elementary 2 = Combined or ungraded		
		3 = Secondary		
URB	Type of community where school is	1 = Large central city of SMSA		
CKB	located	2 = Medium city of SMSA		
	Tocated	3 = Urban fringe of a large city		
		4 = Urban fringe of a medium city		
		5 = Large town, not in SMSA		
		6 = Small town, not in SMSA		
		7 = Rural		
		8 = Unknown		
BKCLSZ	Library book collection size	1 = 1-5,000 books		
		2 = 5,001-10,000		
		3 = 10,001-15,000		
		4 = 15,001-20,000		
		5 = More than 20,000		
		6 = Unknown		
MINEN	Percent minority enrollment at	1 = 0.5.4% are of minority race or ethnic		
	school	origin		
		2 = 5.5-20.4%		
		3 = 20.5-50.4% 5 = 50.5-100%		
		4 = Unknown		
AGE	Respondent's age category	1 = Less than 30 years old		
HOL	respondent suge eurogory	2 = 30-45		
		3 = 46-60		
		4 = More than 60		
LIBEXP	Years as a librarian in all schools	1 = 1-3 years		
		2 = 4-15		
		3 = 16-30		
		4 = More than 30		
		5 = Unknown		
HIGHDEG	Highest degree earned by respondent	1 = Associate's degree or no degree		
		2 = Bachelor's degree		
TTY 17	7 1 1 1 1 1 1 1 1 1 1	3 = Master's degree or higher		
FUL-PART	Full-time/part-time status	1 = Full-time librarian at this school		
		2 = Part-time librarian at this school		
		3 = Unknown		

Table VIII-11.—Private school library media specialist (LS-2B) matching variables and collapse ordering

01 01 01 01 01 01 01 01 01 01 01 01 01 0			
	Items ¹	Matching Variables	Order of Collapse
_	5	AFFLG, ENR, LEVEL, BKCLSZ BKCLSZ, LEVEL, ENR	
	23	AFFLG, AGE, LIBEXP, LEVEL LEVEL, LIBEXP, AGE	
	17b	AFFLG, HIGHDEG, LEVEL, AGE	AGE, LEVEL, HIGHDEG
	26	AFFLG, ENR, HIGHDEG, LIBEXP,	URB, FUL-PART, LIBEXP,
		FUL-PART, URB	HIGHDEG, ENR

The data collected in these items are described in Table VI-7. For actual wording, see SASS and PSS Questionnaires: 1993-94, U.S. Department of Education, National Center for Education Statistics (NCES 94-674) or 1993-94 Schools and Staffing Survey: Data File User's Manual, U.S. Department of Education, National Center for Education Statistics.

Table VIII-12	Table VIII-12.—Indian school library media specialist/librarian (LS-2C) imputation variables				
Variable	Description	Values			
name					
ENR	Enrollment size code for	1 = 1-299 students			
	school	2 = 300-599			
		3 = 600 or more			
		4 = Unknown			
LEVEL	Instructional level of school	1 = Elementary			
		2 = Combined or ungraded			
		3 = Secondary			
URB	Type of community where	1 = Large central city of SMSA			
	school is located	2 = Medium city of SMSA			
		3 = Urban fringe of a large city			
		4 = Urban fringe of a medium city			
		5 = Large town, not in SMSA			
		6 = Small town, not in SMSA			
		7 = Rural			
		8 = Unknown			
BKCLSZ	Library book collection size	1 = 1-5,000 books			
	•	2 = 5,001-10,000			
		3 = 10,001-15,000			
		4 = 15,001-20,000			
		5 = More than 20,000			
		6 = Unknown			
MINEN	Percent minority enrollment	1 = 0-5.4% are of minority race or ethnic origin			
	at school	2 = 5.5-20.4%			
		3 = 20.5-50.4%			
		5 = 50.5-100%			
		4 = Unknown			
AGE	Respondent's age category	1 = Less than 30 years old			
		2 = 30-45			
		3 = 46-60			
		4 = More than 60			
LIBEXP	Years as a librarian in all	1 = 1-3 years			
	schools	2 = 4-15			
		3 = 16-30			
		4 = More than 30			
		5 = Unknown			
HIGHDEG	Highest degree earned by	1 = Associate's degree or no degree			
	respondent	2 = Bachelor's degree			
		3 = Master's degree or higher			
FUL-PART	Full-time/part-time status	1 = Full-time librarian at this school			
		2 = Part-time librarian at this school			
		3 = Unknown			
BIAOP	Type of BIA school	1 = School is funded and operated by the Bureau of Indian			
		Affairs			
		2 = School is funded by the BIA but operated by a tribe or other			
		organization			

3. Clerical Imputation for Public and Private School Librarians

These items were clerically imputed for some cases with missing values: 10a, 14, 18, 26, 28.

C. Imputation Flags

Entries imputed to the Library Survey records are identified by flags that denote the stage or type of imputation: 2 = stage 1 imputation (use of other questionnaire data, data from related questionnaires, etc.); $3 = \frac{1}{2}$

stage 2 imputation (use of donor); 4 = clerical imputation; 0 = not imputed.

The variable names for these flags consist of F_ (F *underscore*) and the variable name for the data entry. For example, the flag for variable M050 on the library media center file would be named F_M050.

IX. Weighting

The sample library media centers and librarians in this survey were weighted to produce state and national estimates for the public sector, religious affiliation and national estimates for the private sector, and national estimates for Bureau of Indian Affairs schools.

The final weight assigned to each sample library and librarian is the product of the school's basic weight (the inverse of the probability of the school's selection for SASS) multiplied by factors that adjust the basic weight to account for the subsampling of SASS schools for the Library Survey, unusual circumstances that affected the school's probability of selection (e.g., the school having merged with another school or being listed twice on the school universe files), schools that did not respond to the Library Survey or to SASS, the weighted count of schools in SASS that reported having a library, and the weighted count of schools in SASS that reported they did not have a library.

Replicate weights for variance estimation

The library and librarian replicate weights are generally equal to the school bootstrap replicate weight times the conditional probability of selection given the school is selected in the SASS school sample. These adjusted bootstrap replicate weights are provided on the file.

Balanced half sample replication (BHR) methodology for estimating variances was employed rather than bootstrap in two instances. First, if

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⁹For a detailed description of the weighting process, see Abramson, R., Cole, C., Fondelier, S., Jackson, B., Parmer, R., and Kaufman, S., 1993-94 Schools and Staffing Survey: Sample Design and Estimation, U.S. Department of Education, National Center for Education Statistics, NCES 95-089.

a school had been selected with certainty and subsequently subsampled for the library survey not with certainty, no bootstrap replicate weights were available, so records were sorted by stratum and order of selection and assigned variance stratum and panel.

The second instance was in the private area frame. These library sample records were assigned replicate weights by multiplying the school BHR replicate weight times the conditional probability of selection given the school is selected in the SASS school sample.

X. Definitions

The following terms are defined as they apply to the Library Survey.

- Imputation. Imputation is the creation of values for items that should been answered by respondents but were not. Values may have been imputed by (1) using information from other items on the same data record (i.e., internal imputation), (2) extracting data from a related component of the Library Survey or the Schools and Staffing Survey (e.g., using data from a SASS school record to impute missing values to the record for the school's library), or (3) extracting data from the record for a sample case with similar characteristics (donor-based imputation or the "hot deck" method of imputing for item nonresponse).
- *Head librarian*. The head librarian is the school staff member whose main responsibility is managing the school's library media center.
- *Library media center*. A library media center is an organized collection of printed, audiovisual, or computer resources that (a) is administered as a unit, (b) is located in a designated place or places, and/or (c) makes resources and services available to students, teachers and administrators.
- *Library media specialist*. A library media specialist is a school professional staff member who is state-certified in the field of library media.
- *School, BIA.* BIA schools are those that are funded by the Bureau of Indian Affairs, U.S. Department of Interior. These schools may be operated by the BIA, a tribe, a private contractor, or a local education agency (or school district).

- *School, combined.* A school is classified as a combined school if it has sixth grade (or any lower grade) **and** ninth grade (or any higher grade); for example, schools with grades K-12, 6-12, 6-9, or 1-12 are classified as combined schools. Schools in which all students are ungraded (i.e., not classified by standard grade levels) are also classified as combined.
- *School, elementary.* A school is elementary if it has no grade higher than 8 and at least one of grades 1 through 6; for example, schools with grades K-6, 1-3, or 6-8 are classified as elementary schools.
- *School, Indian*. An Indian school is a school funded by the Bureau of Indian Affairs (BIA) that is not operated by an LEA. An Indian school may be operated by the BIA, a tribe, or a private contractor.
- School, private. A private school is a school that is not supported primarily by public funds (i.e., it is not a public school). It must provide instruction for one of more of grades 1 through 12 (or comparable ungraded levels), have one or more teachers and be located in a building that is not used primarily as a private home. Organizations or institutions that provide support for home schooling but do not offer classroom instruction for students are not included.
- *School, public.* A public school is an institution that provides educational services for at least one of grades 1 through 12 (or comparable ungraded levels), has one or more teachers, is located in one or more buildings, and is supported primarily by public funds. State schools (e.g., schools for the deaf or the blind), schools in juvenile detention centers, and schools located on military bases and operated by the Department of Defense are included.
- *School, secondary*. A school is secondary if it has no grade less than 7 and at least one of grades 7 through 12; for example, schools with grades 9-12, 7-8, 10-12, or 7-9 are classified as secondary schools.